CD BULLETIN

ARRL HEADQUARTERS WEST HARTFORD, CONN.

SPRING EDITION (NO.66) APRIL 1963

ARRL 160 METER REQUEST GRANTED

HELP IN BETTER OPERATING CAMPAIGN

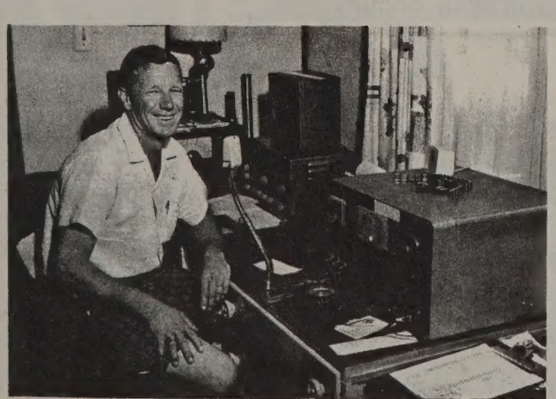
W/VE MOBILE RULES

THE FAMILY ALBUM

W5FMO, ORS OPS OO SCM of La., gets a kidding from fellow FMTer W5JPM. Credit for the photo goes to K5PME

WA2KSP, NLI OES, currently is bldg a halo for 2 from alumin. flatbar.

Smiling though recuperating from a bad accident is K4LCF, OPS PAM OBS and Net Mgr. of the Fla. Phone Net



'Twas in December '61 that the League asked FCC to review our 160-meter restrictions that were made in '56 and '58 on account of Loran navigational service requirements. We asked that the restrictions be removed or relaxed. ARRL never stopped working for this result. The Board and the Hq. rejoice with the amateurs who like this band best, that the Loran-amateur sharing provisions have now been changed, expanded, responsive to our petition.

As a result of the study and analysis of the Coast Guard, responsible for Loran, and the League's petition, amateurs in every state now get added frequency privileges in "160." See pages 64A-64B, March '63 QST, for the fully detailed listing (for your state) of the Frequencies, Power, Day-Night limits etc.

To give maximum freedom of use, the amended FCC rules divided the nation into more areas. Some remote from Loran stations can use all segments! Generally speaking, frequencies are more vital to amateur use than high power. The increased frequency leeway will require in a few areas, lower power. Please check QST, both as to the added frequencies you can use (from Feb. 21) and the power levels, effective APRIL 15, 1963. S.s.b. has not been checked out and may not be used in the 1800-2000 kc. amateur range, starting Apr. 15th.

USING 160 METERS

Here is an inviting band increase at a time when we never needed it so much. Propagation conditions on this part of the 11-yr. sunspot cycle are temporarily at their worst.

Every traffic net and emergency operator who found difficulty (excessive-skip QRM and weaker signals in the net area) this last season, should

(Cont. on page 3)

WIDEN BANDS BY EFFICIENT OCCUPANCY
INSPIRE GOOD OPERATING BY EXAMPLE

The AMERICAN RADIO RELAY LEAGUE in view of increasing congestion in our limited frequencies, urges upon all amateurs a generally strict observance of the following principles, and some suggested operating procedures. ...

MAKE a proper choice of the bands below 30 Mc. for the DISTANCE to be covered.

ACHIEVE equipment flexibility. Build, acquire, arrange equipment and station controls so you have a choice of all the frequency bands; make provision for changing Power quickly as well as Band.

USE minimum band width, consistent with good engineering practice, and compatible with the mode of transmission being employed.

EXPAND your use of v.h.f. for LOCAL contacts wherever possible. Aim to conduct SHORT DISTANCE communications in this part of our frequency spectrum.

ADJUST to minimum power necessary to your communications.(Sec.324,Comms.Act.)

IN OPERATING

LISTEN with care before transmitting and in the course of making contacts to minimize conflict in channel use.

BE BRIEF and this will make contacts with you a pleasure. Whether c.w. or voice is used, be concise; avoid monologuing or speech-making to make on-the-air work more pleasurable.

DUMMY-ANT should be switchable for tune-ups. Keep unnecessary testing and transmitter-adjusting for resonance, or output, off the air.

USE VOX or break-in c.w. Such operation will raise the effectiveness of your time on the air, and the efficiency of your exchanges of intelligence with other amateurs.

SWITCH to the band best adapted to your DX purpose. Avoid the unnecessary use of DX frequencies for short distance contacts.

USE minimum power and band width, as required by regulations, with respect to the authorized mode you are using.

MONITOR preferably with gear that directly samples your on-the-air signal. This aids c.w. keying and detection of any defect. Scope monitoring and receiver checks* are recommended, to avoid flat-topping, splatter or over-modulation effects.

FOR A CLEAN SIGNAL

CHECK* the operating conditions at regular intervals. Re-check transmitters for harmonic suppression, freedom from c.w. clicks or chirps, or gain control or other limit points beyond which splatter, flat-topping and spurious effects occur.

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*For reference:

1) How to Run Your Linear (On avoiding spurious radiations). Nov. '62 QST, page 11.

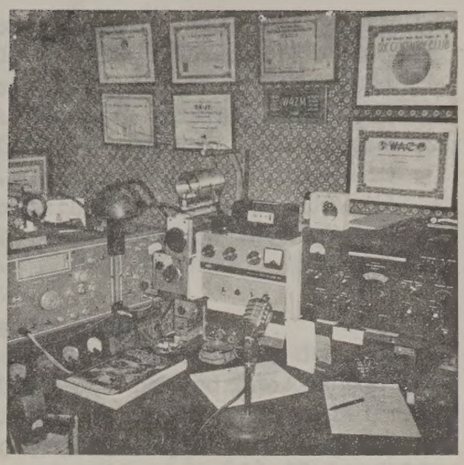
2) Looking at Phone Signals; the Receiver as an Analyzer. Pages 46-49 Dec. '62 QST.

3) Checking Signal Quality with the Receiver (Test Set Up & Dummy Ants.) P. 34 Mar. '63 QST.

4) Testing Your Keying, Pages 245-256, The Radio Amateur's Handbook ('63).

FOR LOCAL CONTACTS USE LOCAL FREQUENCIES: BANDSWITCH! MAKE OPERATIONS CLEAN-COURTEOUS-CONCISE PASS ON ACCURATE HONEST SIGNAL REPORTS. INCLUDE TACTFUL MENTION OF ANY SIGNAL DEFECT .....

Neat station photos, you bet! On top we find W4ZM ORS of Va. who claims to be 90% cw in spite of that mike! Red is active on VN, 4RN and occasionally on EAN. Speaking of EAN; the bottom photo is the QTH of W3EAN. Gene says it is a few years old, but current in equipment except for a new SX101A Rx.



HAVE A STAND BY TRANSMITTER and suitable receiving equipment on a 160 meter frequency right now, so as to use 160 when transmission conditions call for it!

How to do this? See the QST (Feb. '63) article on PUTTING THE ARC-5/T18 on 160 and 80 METERS. Your receiver doesn't cover these frequencies? Build an inexpensive converter. See A 160-METER CONVERTER for 80-M RECEIVER, Jan. '62 QST. For that matter a manufacturer in Mar. '63 QST shows such a tuner now on the market ... also see the Loran Blanker circuit, as described by W6ZH, pps. 24-27 Jan. '63 QST. So there's plenty of data on which to proceed. See you on 160?

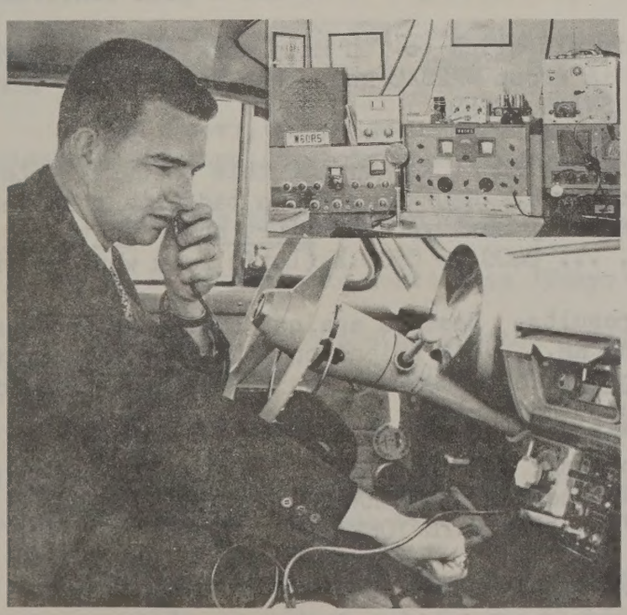
One final word: We share this part of the spectrum with Loran, the primary user, and subject to causing no interference with this life and death navigational facility. Let's put the frequencies to full use ... but use highest care in adjustment, so as to preserve all we have worked hard to attain.

OBSERVATIONS FROM A W3 IN F-LAND

Hovey Cowles, W3JWZ writes from Paris. Only hams in the services can get operating privileges he says. For the French ham who gets an amateur license: The inspector presents himself at the prospect's QTH bringing his lunch! He stays to well in the evening. He conducts a very comprehensive exam (oral) like our General Class exam, 10 w.p.m. code test. It's a practical exam. The prospect must demonstrate to the satisfaction of the inspector on equipment he has in most cases built himself. He must show he understands how to tune up a rig, regulate its use and service it for malfunctions, detecting parasitics or harmonics. W3JWZ believes such a test in USA would diminish lots of the sloppy operating and lack of knowledge. The French ham must be age 16; he is limited to 50 watts input, 80 thru 15; 100-watts for 10, v.h.f. and u.h.f. 435 Mc. is popular. There are no 50 Mc. and 220 Mc. bands. W3JWZ is an OES and CP-30 man studying at the Univ. of Paris for his Master's degree.

POWER-OF-EXAMPLE KEY INGREDIENT IN IMPROVING OPERATING

A letter from Gainsville, Fla. (J. C. Collins) reports 600 hrs. spent (30% c.w., 70% voice) looking over ham bands, checking bad signals. Some from NEW oprs; as many from 10-or-more-year licensees! Mr. Collins makes the point that new men COPY or MIMIC what they hear, bad and good, on the bands. Any operators with more-experience become the teachers. The skill, care, courtesy, and EXAMPLE SETTING



W6ORS (left) Ass't. Dir., OES & PAM and below WA6ORS and OPS! Confused? Not by their operating we'll wager!

of every operator is thus important. We've analyzed his figures (1730 cases) relating to IMPROPER SIGNAL EFFECTS or FCC RULES BROKEN. Readers can check 15-20-40-75 bands and see if they also find this order of defects:

1. Improper Station Identification . . . 16.9%
2. S.s.b. Flat Topping (Gain Too High) . 14.1%
3. Over-mod. on AM Signals 12.4%
4. AM with Frequency Modulation 10.9%
5. Chirpy C.W. Signals 10.1%
6. Distorted Audio 8.7%
7. Off-Freq.Phone or s.s.b. effects beyond sub-band limits . . 7.8%
8. C.W. Harmonics 6.4%
9. Key Clicks 5.9%
10. C.W. Cut of Band Operation . . 2.4%

"Some on s.s.b. were heard nightly out of bounds; signals extending beyond sub-band limits. A number felt they could operate at 3999 or 7299 on lower sideband and not extend beyond the band edge! Operators should bear in mind that 'suppressed' not eliminated is correct terminology! A signal 35 db over S9 at 3999 on lower sideband, even assuming 65 db suppression (more than claimed by any manufacturer) still would provide a sideband S4 (!) extending beyond the sub-band limits." About 1,000 other observations were included in this report. Such things were heard on the band as suggestive jokes, near profanity, "apparently deliberate" interference, negligence in zero beating round tables or nets, remarks in poor taste concerning FCC, the League or other matters. These things tend to create a negative or unfavorable image of the Amateur Service, to the public as well as officialdom.

THANKS FROM KC4USH Don Warren, USN, KC4USH writes from "The Garden Spot of The Ice," Cape Hallett, Antarctica. He lists all the KC4s. "On behalf of all KC4 operators and the men they represent MANY THANKS. ... Our appreciation for your words in the January Bulletin for our cause. ... We have now had about fifteen hundred contacts in less than four months of operation. KC4USH is on 14,302 kc. daily from 0300Z 'til the band closes. Most of the KC4s keep those same hours, so look for us KC4s."

BUILDING FUND Contributions have just passed $100,000. More important than each amount, we think is THAT EVERY AMATEUR AND LICENSEE HAVE SOME PART IN THIS PROJECT. The Mt. Airy VHF Radio Club built a scale model, and on own initiative sold "bricks in the project." K3HWZ, chairman writes, "We're adding a model shack, glad to participate in our small way.*" (* The enclosure was for $500!)

W/VE MOBILE REQUIREMENTS Spring and summer mobiling is just around the corner. Write the DOT or FCC well ahead of your vacation plans to get the required permit. VE's VO's: Write Sec'y, Federal Communications Commission, Washington 25, D.C. Before your travels you must notify the FCC Engineer-in-Charge of the FCC district in which you will operate. The ARRL License Manual covers all FCC amateur service rules and gives a map and address for all 24 districts.
W's K's: Your permit comes from Department of Transport, Ottawa, Cntario, Canada. This with your license, gets you past customs, makes re-entry a breeze, permits work under Canadian regs; because Canada has no equivalent of our Novice or Tech'n License, only holders of our full-privilege classes of license will be granted permits. ANY OPERATION PORTABLE OR MOBILE IN WHICH YOU ARE MORE THAN 48 HRS AWAY FROM HOME BASE REQUIRES FCC NOTIFICATION.

OES NOTES "On v.h.f. it's important to have a receiver that can dig into the noise. Try switching 'tween your antenna and a carbon resistance equal to your line input impedance. If Ant. noise isn't greater than Res. noise you have a line mismatch or a noisy receiver. Both? A cure might be to see a good converter article." -- W2ESX, S.J.R.A. Harmonics.
WA2GFP-OES says 6-m oprs. in NYC stick to ten mile work too much. Many could be surprised and rewarded by 100 mi. DX. A group WA2SAZ knows has daily check-ins from several states. MORAL: SWITCH TO S I X: SWING BEAMS.

LET'S TRY 160 Coming back to our page 1 story, shall we try 160 this CD Party? Let's use every band for all it's worth. Nets that had a bad time this year: Why not an alt. 1.8 Mc. frequency next yr. and start now? In the CD Parties (both) try your luck both Sat. and Sun. ... 0400 to 0500 Z.(Let's know what you hear.)

CW ADVANTAGES. WA2RGK talks up c.w. for best results. Best as against crowded voice bands (100 cy.against 3 kc.). "You copy code BTR thru QRM. ... A friend on 20 cw has 110 countries, 335 DX stns. W2IU has a dozen DX ones on 160 c.w.? In voice work you can't equal this with a gallon." -- WA2RGK, So. Counties ARA News, Guest Editorial.

* * *

In conclusion, how about a snap of yourself and the rig - or a club picture for QST or the Family Album? Please give thought to those p. 2 OPERATING RECOMMENDATIONS. APPOINTEES AND AFFILIATES SET THE EXAMPLE. WE'LL APPRECIATE YOUR HELP. Tnx - 73.

Sincerely yours,

F. E. Handy, W1BDI
Communications Manager

FEH/jlp
Enc.

SOAPBOX

"Going great till the VFO went haywire; next time a spare! " -- Mike, K3KNL, OPS.

"Worked 8 RMs in 4 hours operation." -- Gene, W3EAN, ORS.

"I was already to demolish K1IPL in the c.w. portion and got off a pretty good start when one of my local ECs decided to call a surprise drill. That's what I get for appointing active ECs, hi!" -- W1YNE, SEC/ORS/OPS/CO.

"This is no contest for KM6-land, I could hear 'em but couldn't work 'em. It was a real thrill however, to work W1AW and also picked up Idaho." -- Jack, W6ZDF/KM6, ORS.

"Let's make some ruling to prevent W9YYG and W9QCG from operating on the same band at the same time." -- Bob, KØFPC, ORS/OES.

"Surprised to work so many SCMs in the Party (Mich., Del., NLI, SNJ, Ga., S. F., S. Dgo. and W. Pa.)." -- Ray, K8RDE, CO.

"Only my 2nd party, but I'm addicted!" -- K3PJX, OBS.

"Because of final test week, an electric drill and mom's vacuum cleaner I didn't do too well!" -- K7JRE, ORS.

"Glad to see the 1.8 Mc. activity." -- W9SZR, ORS.

"Fifteen open during the day but few stations heard there." -- Ed, W2ZVW, ORS.

"Top party, top Ops, and all for free, thanks again for ARRL." -- Bert, VE3EAM, EC/ORS.

"I plan to be operating my other station WA6VUI in rare Mono County (SJV) during the July CD on 15-80, c.w. only." -- Don, W6LRU, SCM.

"TF2WHF answered a call late Sunday afternoon on 14.265 sideband on a nearly dead band. VP1AB answered a CQ CD on 75. ... Hope I can report as well for the DX Competition." -- Dave, K5MDX, OPS/EC.

"Nice to get both No. and So. Carolina in a phone party, but where were all the W6 and W7 stations? How about more operation on 14.250 a.m. and 14.285 SSB? Come on fellas, get your friends with appointments to get on!" -- Gary, W1ECH, (Opr. W1AW), Hq.

"Finally a phone party with some real action." -- Bob, WA2NCE, ORS.

"Ten years of CD Parties without missing one and all have been enjoyable despite bad conditions and QRM." -- Charlie, W4JUJ, ORS.

"Would like to see more late evening sideband activity on 40." -- Dave, K4JQO, OPS.

"One hour's phone results: 12 states and 13 sections, not bad!" -- Ben, W2RQF, OPS/CO.

"Tried to put Idaho on in the phone party but met few with appointments other than Idaho stations." -- Helen, W7GGV, SCM.

"My theory, which seems to work out very well, is to get all the sections as soon as possible and then get points on 40 and 80." -- Jim, K4HSB, ORS/CO.

"Congrats to K4ZYI for FB score." -- Ken, K4TEA, ORS.

"A JA gave me his section as 'Tokyo' on 40 Sunday a.m.!" -- Bill, K5OCX, ORS/OPS.

"After 167 QSOs the KW shorted a filter condenser and finished up with 75 watts. How about 1.8 Mc. activity in April 0600-0700 GMT?" -- W9YYG, CO/ORS.

"Very good conditions on 80 from the west coast." -- WA6HRS, OBS.

"More or less expected to miss Idaho, Utah and, perhaps, Nevada; but where were Iowa and New Mexico?" -- Ken, W4DVT, ORS.

"Got 43 out of 50 states for a WAS from the new QTH." -- Bud, K1WJD (K2KIR), ORS.

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PHONE REPORT CD PARTY

Starting Time: Saturday 2300 GMT Ending Time: Monday 0800 GMT

STATION..... APPT(S)..... SECTION.....

QSO NO.	FREQ. BAND	(GMT) TIME	STATION WORKED	APPT	SECTION*	QSO NO.	FREQ. BAND	(GMT) TIME	STATION WORKED	APPT	SECTION*
0		2301	W4XXX	CPS	Ga. #1						

RESULTS JANUARY CD PARTIES

C W TOP SCORERS

K4ZYI K4HSB W4YE K4TEA K4BAI W5CME K5OCX K8RMK W1AW K8MTI W9LNQ K7CTI

PHONE TOP SCORERS

K5MDX W1AW K2QDT W1NJL WA2NCE K8RMK K9MAN K4TEA W4LK W9QQG WØEEE

(The participant first listed under each division heading is the highest scorer in that division. Calls of Section leaders are underlined.)

ATLANTIC. (C.W.) S.N.J.: WA2WLN 115,595; W2ZVW 59,920; WA2BLV 44,290; W2IU 39,270; K2BG 21,340. W.N.Y.: K2TQC 70,280; WA2THY 57,575; K2KTK 31,500; W2SSC 24,400; K2QDT 24,000; W2EMW 11,680; W2ZRC 9240. E. Pa.: K3HNP 58,035; W3NOH 50,730; W3ADE 40,320; K3HTZ 38,500; W3CHU 37,700; W3EAN 30,225; K3MVO 20,330; K3KNL 14,400; W3ELI 11,745; W3EML 9280; K3MNT 5460; W3BFF 2080. M-DC: W3MCG 55,335; W3MSR 29,040; W3CVE 19,600; W3BKE 13,640; W3IVC 8100; W3RNY 3300. W. Pa.: K3PJX 46,320; K3COU 43,240; W3KNG 24,200; W3JHG 19,795; W3KUN 19,000; W3SMV 7500; W3UHN 2720. Del.: W3EEB 28,800; K3GKF 20,900; W3HC 2550; K3AZH 600. (PHONE) W.N.Y.: K2QDT 21,600; W2RQF 1235. S.N.J.: W2ZVW 6110; W2BEI 5100; WA2BLV 3240. E. Pa.: W3NOH 5520; K3RFH 4510; K3MNT 2240; W3ADE 1380. W. Pa.: W3KUN 945. M-DC: W3JZY 765; K3NKX 140. Del.: K3OBU 405; K3AZH 100.

CENTRAL. (C.W.) Ill.: W9LNQ 146,560; W9YYG 132,370; W9KLD/9 43,610; W9HFG 43,500; K9UCG 40,545; W9KMN 29,920; W9MAK 23,760; W9EET 23,540; W9VSO 9000; W9PNE 680. Ind.: K9DHN 122,720; W9EGQ 51,240; W9QLW 31,750; W9DGA 20,295; K9MAN 19,075; W9VAY 15,925. Wisc.: W9YT (K9ELT opr.) 99,760; K9WIE 60,480; W9NLJ/9 59,250; W9RQM 44,200; K9LGU 36,960; K9UUT 36,000; W9MWQ 32,430; W9SZR 30,580; W9WJH 29,025; K9GDF 18,810; W9LFK 525. (PHONE) Ind.: K9MAN 12,865; W9AQW 3780; K9IVG 1045. Ill.: W9QQG 8700; W9ACU 8000; W9VSO 4400; W9PNE 1260. Wisc.: W9SZR 5865; K9LGU 2625.

DAKOTA. (C.W.) S. Dak.: WØCUC/Ø 33,750; WØBLZ 21,500. Minn.: KØKKQ 29,925. N. Dak.: WØTUF (KØs IVQ CWY oprs.) 105,610. (PHONE) Minn.: KØKKQ 720. N. Dak.: KØOSW 20.

DELTA. (C.W.) La.: W5CME (K4DRO opr.) 173,120; W5BUK 35,775. Tenn.: K4LFW 105,530; K4RIN 20,160; W4WBK 3200. Ark.: K5TYW 57,200; W5RIT 11,360. Miss.: W4CJD/5 28,620. (PHONE) Miss.: K5MDX 28,750. Ark.: K5TYW 5060. Tenn.: W4TYV 5.

GREAT LAKES. (C.W.) Ky.: K4HSB 195,960; W4GSH 23,030; W4RNF 2430. Ohio: K8RMK 153,720; K8MTI 151,140; K8EKG 74,480; W8RO 19,740; W8BZX 18,430; K8RFU 12,960; K8RXD 4840; K8BXT 2900; W8BUM 2860; W8DAE 45. Mich.: W8VPC 121,220; K8QLL 89,600; K8RDE 80,620; W8FX 23,040; K8IUZ 8640; W8WXO 8575; W8EGI 8120; W8IBB 3171; K8JJC 2880. (PHONE) Ohio: K8RMK 13,330; K8DDB 6500; W8RO 50. Ky.: WA4ELB 3600.

HUDSON. (C.W.) N.Y.C.-L.I.: W2GKZ 105,210; WA2NCE 100,040; W2CWD 43,120; WA2IUQ 30,090; WA2QJU 11,935; W2JBQ 7410; WA2TJA 6250; W2OBU 45,240; WA2WEA 4140; K2UFT 1950; K2UBG 490. N.N.J.: W2CVW 57,980; W2LQP 50,250; W2DRV 49,980; W2OXL 23,650; WA2SRK 16,650; W2EWZ 12,470; W2BVE 11,310; W2TPJ 10,800; W2NIY 4831; W2ASY 3240; WA2CCF 25. E.N.Y.: W2PKY 12,920; WA2LOJ 770. (PHONE) N.Y.C.-L.I.: WA2NCE 16,100; W2CWD 12,900; W2GKZ 300. N.N.J.: K2MFX 4725; WA2OQP 1200; W2CVW 1155; WA2CCF 240. E.N.Y.: K2HNW 1820.

MIDWEST. (C.W.) Mo.: KØJPL 71,095; KØFPC 30,820; KØFZT 20,160; WØKCG 9300; WØKIK 9145; WØGCL 45. Neb.: WØOKO 50,750; WØDMY 1155. Kans.: WØSAF 36,300. Iowa: WØAGJ 15,200. (PHONE) Mo.: WØEEE (KØLGZ opr.) 8700; KØJPL 3630. Neb.: WØOKO 800. Iowa: KØHGH 30; KØWKT 30.

NEW ENGLAND. (C.W.) Conn.: W1AW (W1WPR opr.) 153,400; W1TS 50,050; K1GGG 21,000; W1BDI 11,725; W1EFW 9610; W1CKA 8060. E. Mass.: K1WJD 108,190; K1MEM 82,350; W1AQE 28,980; K1OJQ 24,600; W1NJL 16,920; K4BVD/1 380. N.H.: K1AEG 62,475; K1BGI 50,715; W1PYM 34,270; W1SWX/1 25,300; K1IIK 15,960; K1BCS 13,140; W1EVN 1430. Me.: W1GKJ 60,030; K1ADY 12,000. W. Mass.: W1ZPB 40,545; K2PHF/1 9455. R.I.: W1YNE 850. (PHONE) Conn.: W1AW (W1ECH opr.) 23,940. E. Mass.: W1NJL 16,450. N.H.: W1PYM 8580; K1IIK 2775; K1AEG 480. Me.: W1GKJ 6270; K1ADY 1140. W. Mass.: K2PHF/1 420. R.I.: W1YNE 200.

NORTHWESTERN. (C.W.) Mont.: K7CTI 145,530; K7NHV 50,470. Wash.: W7RGL 102,175; K7JRE 105. Ore.: K7IWD 58,320; W7FKF 41,565. Idaho: W7GMC 2400. (PHONE) Idaho: W7GGV 20.

PACIFIC. (C.W.) S.C.V.: WA6HRS 131,130; W6WX 106,640; W6RFF 40,290; K6DYX 12,045; K6YKG 6860; W6YBV 5040; K6VQK 3200; W6ZRJ 100; WA6GFY (W6CUF, W7WJB oprs.) 143,840. E. Bay: WA6MIE 28,060; WA6MJP 3300. S.J.V.: W6ADB 11,900. Hawaii: W6ZDF/KM6 4180. S. Fran.:

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W6GOA 880. (PHONE) E. Bay: W6EY 100; W6CBF 60. S.C.V.: K6VCK 90. S. Fran.: W6GOA 5.

ROANOKE. (C.W.) Virg.: W4DVT 124,745; WA4JFY 123,480; K4ITV 107,055; W4KFC 104,100; W4LK 53,750; W4PTR 45,570; W4ZM 36,120; W4JUJ 30,135; W4IA 29,450; K4YDL 28,290; K4IKF 22,570; W4KX 9990; W4FOR 9920; K4QIX 2635; K4KNP 660. W. Virg.: W8GBF 34,500; W8HZA 21,840; W8JM 2550. N. Car.: K4YCL 32,400; WA4FJN 22,140; W4AHY 7500; W4PCN 7500; K4TPK 6120. S. Car.: WA4IKU 26,400. (PHONE) Virg.: W4LK 10,875; W4JUJ 6120; K4JQO 5070; K4IKF 3570; K4YDL 420; W4PTR 390. S. Car.: WA4IKU 4440. W. Virg.: W8HZA 1210. N. Car.: K4YCL 70.

ROCKY MOUNTAIN.(C.W.) Col.: WØETT 115,010; WØMYB 8550; WØSIN 1560. N. Mex.: K5UYF 3500. (PHONE) Col.: WØETT 105.

SOUTHEASTERN. (C.W.) Ga.: K4ZYI 213,730; W4YE 186,450; K4TEA 185,250; W4LG 8550; K4BAI (K4s ADU BAI oprs.) 179,520. W. Fla.: W4JJ (K4VFY opr.) 114,080. E. Fla.: K6SXX/4 103,240; K4JLD 63,990; W4VWL 22,015; K4PVP 11,400; K4NVD 8400; W4BBZ 5460. Ala.: K4BSK 71,820; WA4BDW 56,430; WA4AVM 52,580; K4IWI 19,360; K4FZQ 240. (PHONE) Ga.: K4TEA 11,455. E. Fla.: K4NVD 4180. Ala.: K4WHW 250; K4KJD 65; K4BSK 5.

SOUTHWESTERN. (C.W.) L.A.: W6NKR 110,250; W6BES 103,700; W6VUZ 45,643; K6CLW 1495. S. Dgo.: W6IRU 69,390; W6CHV 57,200; K6IKD 20,800. (PHONE) Ariz.: W7AMM 120. L.A.: WA6CRS 120.

WEST GULF. (C.W.) Okla.: K5OCX 171,360; W5PPE 31,725; W5MFX 8125. S. Tex.: K5HDU 39,375; K5WIC 23,985; K5RCO 5670; W5AIR 2520. N. Tex.: W5IR 2250. (PHONE) N. Tex.: K5PCW 9300. Okla.: W5MFX 630. S. Tex.: W5AIR 360.

CANADIAN. (C.W.) B.C.: VE7AC 68,150; VE7BJV 11,100; VE7FB 240. Cnt.: VE3EAM 63,250; VE3DH 44,250; VE3DU 33,600; VE3BZB 12,600; VE3CYR 9375; VE3EHL 9280; VE3ATI 7500; VE3EWL 5525; VE3BUR 4085; VE3AUU 2080. Mar.: VE1DB 16,800; VE1EK 16,800; VE1OM 1400. Sask.: VE5HR 10,075. Alb.: VE6FK 4420. Que.: VE2AJD 1045. (PHONE) Cnt.: VE3AUU 420; VE3DH 300.

RULES APRIL CD PARTIES

IDENTIFYING ELIGIBLES IN CD PARTY

Operators identifying their stations as ORS, OPS, OES, OBS, SEC, EC, RM, PAM, CO Dir., SCM, VCDIR., ASDIR., QM, HQ, etc., will reply to calls of "CQ CD" or (voice) "Calling any League Appointee." This brief identification and exchange of sections is necessary for score credit. Only officials and individuals currently holding appointments may be counted. You have to report activity to your SCM monthly and get his endorsement each 12 months to keep your appointment in effect.

THE FOLLOWING OFFICIALS AND APPOINTEES ARE ELIGIBLE FOR THE CD PARTY

Pres., VP,	SEC	CRS
Past Pres.	EC	OPS
Dir., Vice-Dir.	RM	OBS
Asst. Dir.	PAM	OES
Gen. Counsel	HQ	CO
QSL Mgr.		
SCM, Asst. SCM		
NTS Officials		

THE SCORE PLAN

Count 5 points per QSO. Use any choice of authorized BANDS. The same station may be worked once per band. Add QSO points plus Code Proficiency Credit if any. CP Credit claimed in points is number equal to the maximum speed shown on your ARRL Code Proficiency Certificate or latest endorsement sticker issued to you. This is a fixed factor to be added to QSO Points before multiplier. (One cannot claim points until sticker or certificate is in his or her possession). Multiply this by the sum of DIFFERENT SECTIONS worked. This give your fianl score. As you enter QSOs on the report form, indicate each change-in-band.

PARTY PERIODS DATE & TIME

C.W.: Operate any TWENTY HOURS of the 33-hour period.
Starts: April 13 2300 GMT.
Ends: April 15 0801 GMT.

PHONE: Operate any TWENTY HOURS of the 33-hour period.
Starts: April 20 2300 GMT.
Ends: April 22 0801 GMT.

FOR ALL REPORTS: Include on-and-off times on the score sheet. C.W. reports must be post-marked by May 4, phone reports by May 11 for official entry. Please mail results promptly, using the yellow sheet for c.w., the pink for phone. Additional sheets are available on request from ARRL.

E X T R A: On March 13 the FCC granted ARRL's request for relaxed mobile logging requirements. New rules effective March 21 allow logging at intervals to cover periods worked. Details May QST.